#### **REMARKS**

Entry of the foregoing, re-examination and reconsideration of the subject matter identified in caption, as amended, pursuant to and consistent with 37 C.F.R. §1.112, and in light of the remarks which follow, are respectfully requested.

Claims 4-10, 13-16 and 64 have been cancelled, claims 1-3, 11, 17-19, 59-63, 65-72, 74-76, 78-80, 85, 87-90, 95, 97-100, 105 and 106 have been amended and new claims 108-110 have been added. Support for the changes in claim 11 may be found on page 15, lines 17-19 (K<sub>2</sub>O of 1-5 molar %) and on page 16, lines 8-10 (TiO<sub>2</sub> of 2-9 molar %). Support for new claims 108 and 109 may be found in paragraphs [0070] and [0071] on pages 27-28 of the specification. New claim 110 is identical to claim 60 except for dependency on claim 108. Amendments to the other claims were made to change claim dependencies.

In response to the Examiner's objections to the specification, a new Abstract has been provided and the Summary of the Invention, paragraph [0012], has been revised to eliminate reference to claims. Accordingly, the objections to the specification have been obviated.

Claims 1-3 and 66-69 have been rejected under 35 U.S.C. §112, second paragraph, for reasons set forth on page 3 of the Office Action. In response thereto, claims 1-3 have been amended to depend upon claims 11, 108 and 109, respectively. Also, the word "substantial" has been removed from claims 66-69 to expedite prosecution. Those of ordinary skill in this art would understand that "substantial" amounts are those which would affect the properties desired in the glasses of the invention. Amounts present as

impurities or in amounts which do not affect the desired properties are not excluded. In view of the above amendments, the §112 rejection should be withdrawn.

In response to the objection to claims 61 and 65 set forth on page 3-4 of the Office Action, the dependencies of these claims has been changed. Accordingly, the objection has been obviated.

Claims 1-19, 59-101, 105 and 106 have been rejected under 35 U.S.C. §102(e) as anticipated by U.S. Patent 6,333,282 to Nakahata et al. for the reasons given on pages 4-5 of the Office Action. Reconsideration of this rejection is requested in view of the above amendments and the following remarks.

Independent claims 11, 108 and 109 are directed to optical glasses which include, inter alia, specific amounts of  $K_2O$  and  $TiO_2$ . Thus, the glasses of claim 11 require 1-5% of  $K_2O$  and 2-9% of  $TiO_2$  while the glasses of claims 108 and 109 require 0.5-7% of  $K_2O$  and 1-9%  $TiO_2$ .  $TiO_2$  is incorporated in order to improve the resistance of the glass to loss of transparency (see [0029] page 16). However, since incorporation of  $TiO_2$  makes glass colored, the glasses of the present invention contain an amount of  $K_2O$  sufficient to avoid coloring with  $TiO_2$ .

In contrast, the glasses taught by Nakahata '282 do not contain  $TiO_2$  and  $K_2O$ . As a matter of fact, the reference teaches away from adding  $TiO_2$ . Note the discussion in column 6, lines 40-64. Thus, Nakahata '282 is not anticipatory. In view thereof, the \$102(e) rejection should be withdrawn.

From the foregoing, further and favorable action in the form of a Notice of Allowance is believed to be next in order and such action is earnestly solicited. If the Examiner has any questions concerning this paper or the application in general, she is invited to telephone the undersigned at (703) 838-6683.

Respectfully submitted,

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### MARK-UP COPY OF THE ABSTRACT

An optical glass having a high refractive index and high dispersion characteristics [that is suited to] suitable for application to precision press molding to precisely mold [the shape of] final products [for objectives not] without requiring grinding or polishing. An optical glass can be prepared exhibiting a refractive index in the range of from 1.75 to 2.0, and an Abbé number in the range of from 20 to 28.5. Optical parts comprised of this glass; press-molding materials comprised of this glass; methods of manufacturing the same; and methods of manufacturing molded glass products employing these materials. A suitable optical glass is composed of the following in molar percent: 15-30% P<sub>2</sub>O<sub>5</sub>; 0.5-15% B<sub>2</sub>O<sub>3</sub>; 5-25% Nb<sub>2</sub>O<sub>5</sub>; 6-40% WO<sub>3</sub>; 4-45% of at least one of Li<sub>2</sub>O, Na<sub>2</sub>O or K<sub>2</sub>O; 1-5% K<sub>2</sub>O; 2-9% TiO<sub>2</sub>; and 0-30% (excluding 30%) of at least one RO selected from among BaO, ZnO, and SrO; with the total content of the above-stated components being equal to or more than 95 percent.

### **Marked-Up Copy of Specification**

Paragraph [0012]

#### **Summary of the Invention**

That is, the present invention provides:

- 1. An optical glass (referred to hereinafter as optical glass (1)) exhibiting a refractive index in the range of from 1.75 to 2.0, an Abbé number in the range of from 20 to 28.5, and a viscosity at the liquid phase temperature equal to or higher than 0.4 Pa·s.
- 2. An optical glass (referred to hereinafter as optical glass (2)) exhibiting a refractive index in the range of from 1.75 to 2.0, an Abbé number in the range of from 20 to 28.5, and a glass transition temperature equal to or less than 540°C.
- 3. An optical glass (referred to hereinafter as optical glass (3)) exhibiting a refractive index in the range of from 1.75 to 2.0, an Abbé number in the range of from 20 to 28.5, and a transmittance  $\lambda 80$  is equal to or less than 500nm and a transmittance  $\lambda 5$  is equal to or less than 385nm.
- 4. The optical glass of any of [claims] 1-3 <u>above</u> wherein said optical glass comprising, as molar percentages, 12-34 percent of P<sub>2</sub>O<sub>5</sub>; 0.2-15 percent of B<sub>2</sub>O<sub>3</sub>; 0-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 0-40 percent of WO<sub>3</sub>; 4-45 percent of at least one R'<sub>2</sub>O selected from among Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O; and 0-30 percent (excluding 30 percent) of at least one RO selected from among BaO, ZnO, and SrO; with the total content of the above-stated components being equal to or more than 94 percent.

- 5. The optical glass of any of [claims] 1-3 <u>above</u> wherein said optical glass comprising, as molar percentages, 12-34 percent of P<sub>2</sub>O<sub>5</sub>; 0.2-15 percent of B<sub>2</sub>O<sub>3</sub> (where the total quantity of P<sub>2</sub>O<sub>5</sub> and B<sub>2</sub>O<sub>3</sub> is 15-35 percent); 0-45 percent of WO<sub>3</sub>; 0-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 0 to 10 percent of TiO<sub>2</sub> (where the total quantity of WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, and TiO<sub>2</sub> is 20-45 percent); 0-25 percent of BaO; 0-20 percent of ZnO (where the total quantity of BaO and ZnO is less than 30 percent); 2-30 percent of Li<sub>2</sub>O; 2-30 percent of Na<sub>2</sub>O; 0-15 percent of K<sub>2</sub>O (where the total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is 10-45 percent); 0-10 percent of CaO; 0-10 percent of SrO; 0-5 percent of Al<sub>2</sub>O<sub>3</sub>; 0-5 percent of Y<sub>2</sub>O<sub>3</sub>; 0-1 percent of Sb<sub>2</sub>O<sub>3</sub>; and 0-1 percent of As<sub>2</sub>O<sub>3</sub>; where the total quantity of all of the above-listed components is equal to or more than 94 percent.
- 6. An optical glass comprising, as molar percentages, 15-30 mol percent of P<sub>2</sub>O<sub>5</sub>; 0.5-15 mol percent of B<sub>2</sub>O<sub>3</sub>; 5-25 mol percent of Nb<sub>2</sub>O<sub>5</sub>; 6-40 mol percent of WO<sub>3</sub>; 4-45 mol percent of at least one R'<sub>2</sub>O selected from among Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O; and 0-30 percent (excluding 30 percent) of at least one RO selected from among BaO, ZnO, and SrO; with the total content of the above-stated components being equal to or more than 95 percent.
- An optical glass (referred to hereinafter as optical glass (4)) comprising 15-30 percent of P<sub>2</sub>O<sub>5</sub>; 0.5-15 percent of B<sub>2</sub>O<sub>3</sub>; 5-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 6-40 percent of WO<sub>3</sub>; 4-45 percent of at least one R'<sub>2</sub>O selected from among Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O; and 0-30 percent (excluding 30 percent) of at least one RO selected from among BaO, ZnO, and SrO; with the total content of the above-stated components being equal to or more than 95 percent.

- 8. The optical glass of [claim] 7 above wherein said optical glass comprising 0-25 molar percent (excluding 0 molar percent) of BaO.
- 9. An optical glass (referred to hereinafter as optical glass (5)) comprising 15-30 percent of P<sub>2</sub>O<sub>5</sub>; 0.5-15 percent of B<sub>2</sub>O<sub>3</sub>; 5-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 6-40 percent of WO<sub>3</sub>; not more than 10 percent of TiO<sub>2</sub>; 4-45 percent of at least one R'<sub>2</sub>O selected from among Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O; and 0-30 percent (excluding 30 percent) of at least one RO selected from among BaO, ZnO, and SrO.
- An optical glass (referred to hereinafter as optical glass (6)) comprising, as molar percentages, 12-34 percent of P<sub>2</sub>O<sub>5</sub>; 0.2-15 percent of B<sub>2</sub>O<sub>3</sub> (where the total quantity of P<sub>2</sub>O<sub>5</sub> and B<sub>2</sub>O<sub>3</sub> is 15-35 percent); 0-45 percent of WO<sub>3</sub>; 0-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 0 to 10 percent of TiO<sub>2</sub> (where the total quantity of WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, and TiO<sub>2</sub> is 20-45 percent); 0-25 percent of BaO; 0-20 percent of ZnO (where the total quantity of BaO and ZnO is less than 30 percent); 2-30 percent of Li<sub>2</sub>O; 2-30 percent of Na<sub>2</sub>O; 0-15 percent of K<sub>2</sub>O (where the total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is 10-45 percent); 0-10 percent of CaO; 0-10 percent of SrO; 0-5 percent of Al<sub>2</sub>O<sub>3</sub>; 0-5 percent of Y<sub>2</sub>O<sub>3</sub>; 0-1 percent of Sb<sub>2</sub>O<sub>3</sub>; and 0-1 percent of As<sub>2</sub>O<sub>3</sub>; where the total quantity of all of the above-listed components is equal to or more than 94 percent; a density of oxygen atoms contained is in the range of from 4.2 x 10<sup>22</sup> to 5.2 x 10<sup>22</sup>/cm<sup>3</sup>.
- 11. An optical glass (referred to hereinafter as optical glass (7)) comprising, as molar percentages, 12-34 percent of P<sub>2</sub>O<sub>5</sub>; 0.2-15 percent of B<sub>2</sub>O<sub>3</sub> (where the total quantity of P<sub>2</sub>O<sub>5</sub> and B<sub>2</sub>O<sub>3</sub> is 15-35 percent); 2-45 percent of WO<sub>3</sub>; 0-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 0 to 10 percent of TiO<sub>2</sub> (where the total quantity of WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, and TiO<sub>2</sub> is 20-45 percent); 0-25 percent of

- BaO; 0-20 percent of ZnO (where the total quantity of BaO and ZnO is less than 30 percent); 2-30 percent of Li<sub>2</sub>O; 2-30 percent of Na<sub>2</sub>O; 0-15 percent of K<sub>2</sub>O (where the total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is 29-45 percent); 0-10 percent of CaO; 0-10 percent of SrO; 0-5 percent of Al<sub>2</sub>O<sub>3</sub>; 0-5 percent of Y<sub>2</sub>O<sub>3</sub>; 0-1 percent of Sb<sub>2</sub>O<sub>3</sub>; and 0-1 percent of As<sub>2</sub>O<sub>3</sub>; where the total quantity of all of the above-listed components is equal to or more than 94 percent.
- 12. An optical glass (referred to hereinafter as optical glass (8)) comprising, as molar percentages, 12-34 percent of P<sub>2</sub>O<sub>5</sub>; 0.2-15 percent of B<sub>2</sub>O<sub>3</sub> (where the total quantity of P<sub>2</sub>O<sub>5</sub> and B<sub>2</sub>O<sub>3</sub> is 15-35 percent); 2-45 percent of WO<sub>3</sub>; 0-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 0 to 10 percent of TiO<sub>2</sub> (where the total quantity of WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, and TiO<sub>2</sub> is 20-45 percent); 0-11 percent of BaO; 0-20 percent of ZnO (where the total quantity of BaO and ZnO is less than 30 percent); 2-30 percent of Li<sub>2</sub>O; 2-30 percent of Na<sub>2</sub>O; 0-15 percent of K<sub>2</sub>O (where the total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is 10-45 percent); 0-10 percent of CaO; 0-10 percent of SrO; 0-5 percent of Al<sub>2</sub>O<sub>3</sub>; 0-5 percent of Y<sub>2</sub>O<sub>3</sub>; 0-1 percent of Sb<sub>2</sub>O<sub>3</sub>; and 0-1 percent of As<sub>2</sub>O<sub>3</sub>; where the total quantity of all of the above-listed components is equal to or more than 94 percent.
- 13. The optical glass of any of [claims] 10-12 above wherein said optical glass has the composition comprising, as essential components, P<sub>2</sub>O<sub>5</sub>, B<sub>2</sub>O<sub>3</sub>, WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, TiO<sub>2</sub>, BaO, ZnO, Li<sub>2</sub>O, Na<sub>2</sub>O and K<sub>2</sub>O or the composition comprising the above essential components and Sb<sub>2</sub>O<sub>3</sub>.
- 14. The optical glass of [claims] 10 or 11 above wherein said optical glass comprises 0-11 percent of BaO.

- 15. The optical glass of [claims] 10 or 12 above wherein said total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is equal to or more than 29 percent.
- 16. The optical glass of any of [claims] 10 to 12 above wherein said optical glass has a density of oxygen atoms contained in the range of from  $4.2 \times 10^{22}$  to  $5.2 \times 10^{22}$ /cm<sup>3</sup>.
- 17. An optical glass (referred to hereinafter as optical glass (9)) comprising  $P_2O_5$ ,  $B_2O_3$ ,  $WO_3$  and an alkali metal oxide, wherein the total quantity of  $P_2O_5$  and  $B_2O_3$  is 15-35 molar percent and a content of  $WO_3$  is 2-45 molar percent and a density of oxygen atoms contained ranges from  $4.2 \times 10^{22}$  to  $5.2 \times 10^{22}$ /cm.
- 18. The optical glass of [claims] 17 above wherein said optical glass comprises 2-30 molar percent of Li<sub>2</sub>O.
- 19. The optical glass of any of [claims] 10-18 above wherein said optical glass does not comprise substantial amount of GeO<sub>2</sub>.
- 20. The optical glass of any of [claims] 10-19 above wherein said optical glass exhibits a glass transition temperature equal to and/or less than 530°C and a yield point temperature equal to or less than 580°C.
- 21. The optical glass of any of [claims] 10-20 above wherein said optical glass exhibits a refractive index in the range of from 1.7 to 2.0, an Abbé number in the range of from 20 to 32.
- 22. The optical glass of any of [claims] 10-20 <u>above</u> wherein said optical glass exhibits a liquid phase temperature equal to or less than 970°C.
- 23. An optical part being composed of the optical glass of any of [claims] 1-22 above.

- 24. A glass preform being composed of the optical glass of any of [claims] 1-22 above.
- 25. A method of manufacturing glass preforms wherein a prescribed amount of a piece of molten glass flowing out of a flowout pipe is received in a receiving mold to prepare a glass preform made of the optical glass of any of [claims] 1-22 above.
- 26. A method of manufacturing glass preforms made of the optical glass of any of [claims] 1-22 above, comprising the steps of:

a molten glass glob is made to fall by causing molten glass flowing out of a flowout pipe to drip naturally or by cutting with a cutting blade;

the molten glass glob is received in a depression in a forming mold, and in the process, air, a nonreactive gas or some other gas is blown out through minute holes in the depressions; and,

a layer of air is generated between the molten glass glob and the inner surface of depression in the forming mold and the molten glass glob is maintained and cooled within the depression in a state of essential non-contact with the inner surface of the depression until at least a portion of the outer surface of the molten glass glob reaches a temperature not greater than the melting temperature.

27. A method of manufacturing glass products comprising the steps of :

heating the glass preform of [claim] 24 <u>above</u> or the glass preform prepared by the method of [claim] 25 <u>above</u> and precisely press molding the heated glass preform to obtain a glass product.

### Marked-Up Copy of Claims

- 1. (Amended) [An] <u>The</u> optical glass of claim 11 exhibiting a refractive index in the range of from 1.75 to 2.0, an Abbé number in the range of from 20 to 28.5, and a viscosity at a liquid phase temperature equal to or higher than 0.4 Pa·s.
- 2. (Amended) [An] The optical glass of claim 108 exhibiting a refractive index in the range of from 1.75 to 2.0, an Abbé number in the range of from 20 to 28.5, and a glass transition temperature equal to or less than 540°C.
- 3. (Amended) [An] The optical glass of claim 109 exhibiting a refractive index in the range of from 1.75 to 2.0, an Abbé number in the range of from 20 to 28.5, and a transmittance  $\lambda$  80 is equal to or less than 500nm and a transmittance  $\lambda$  5 is equal to or less than 385 nm.
- 11. (Amended) An optical glass comprising <u>as molar percentages</u>, 15-30 percent of P<sub>2</sub>O<sub>5</sub>; 0.5-15 percent of B<sub>2</sub>O<sub>3</sub>; 5-25 percent of Nb<sub>2</sub>O<sub>5</sub>; 6-40 percent of WO<sub>3</sub>; 4-45 percent of at least one R'<sub>2</sub>O selected from [among] <u>the group consisting of Li<sub>2</sub>O</u>, Na<sub>2</sub>O, and K<sub>2</sub>O<sub>2</sub>.

  1-5 percent of K<sub>2</sub>O; [and] 0-30 percent (excluding 30 percent) of at least one RO selected from [among] <u>the group consisting of BaO</u>, ZnO, and SrO; <u>and 2-9 percent of TiO<sub>2</sub></u>; with the total content of the above-stated components being equal to or more than 95 percent.

- 17. (Amended) The optical glass of claim [14] 11 wherein said optical glass has the composition comprising, as essential components, P<sub>2</sub>O<sub>5</sub>, B<sub>2</sub>O<sub>3</sub>, WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, TiO<sub>2</sub>, BaO, ZnO, Li<sub>2</sub>O, Na<sub>2</sub>O and K<sub>2</sub>O or the composition comprising the above essential components and Sb<sub>2</sub>O<sub>3</sub>.
- 18. (Amended) The optical glass of claim [15] 108 wherein said optical glass has the composition comprising, as essential components, P<sub>2</sub>O<sub>5</sub>, B<sub>2</sub>O<sub>3</sub>, WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, TiO<sub>2</sub>, BaO, ZnO, Li<sub>2</sub>O, Na<sub>2</sub>O and K<sub>2</sub>O or the composition comprising the above essential components and Sb<sub>2</sub>O<sub>3</sub>.
- 19. (Amended) The optical glass of claim [16] 109 wherein said optical glass has the composition comprising, as essential components, P<sub>2</sub>O<sub>5</sub>, B<sub>2</sub>O<sub>3</sub>, WO<sub>3</sub>, Nb<sub>2</sub>O<sub>5</sub>, TiO<sub>2</sub>, BaO, ZnO, Li<sub>2</sub>O, Na<sub>2</sub>O and K<sub>2</sub>O or the composition comprising the above essential components and Sb<sub>2</sub>O<sub>3</sub>.
- 59. (Amended) The optical glass of claim [14] 11 wherein said optical glass comprises 0-11 percent of BaO.
- 60. (Amended) The optical glass of claim [14] 11 wherein said total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is equal to or more than 29 percent.

- 61. (Amended) The optical glass of claim [14]  $\underline{11}$ , wherein said optical glass has a density of oxygen atoms contained in the range of from 4.2 x  $10^{22}$  to 5.2 x  $10^{22}$ /cm<sup>3</sup>.
- 62. (Amended) The optical glass of claim [15]  $\underline{108}$  wherein said optical glass has a density of oxygen atoms contained in the range of from 4.2 x  $10^{22}$  to 5.2 x  $10^{22}$ /cm<sup>3</sup>.
- 63. (Amended) The optical glass of claim [16]  $\underline{109}$  wherein said optical glass has a density of oxygen atoms contained in the range of from  $4.2 \times 10^{22}$  to  $5.2 \times 10^{22}$ /cm<sup>3</sup>.
- 65. (Amended) The optical glass of claim [62]  $\underline{11}$  wherein said optical glass comprises 2-30 molar percent of  $Li_2O$ .
- 66. (Amended) The optical glass of claim [14] 11 wherein said optical glass does not comprise [substantial] an amount of GeO<sub>2</sub>.
- 67. (Amended) The optical glass of claim [15] 108 wherein said optical glass does not comprise [substantial] an amount of GeO<sub>2</sub>.
- 68. (Amended) The optical glass of claim [16] 109 wherein said optical glass does not comprise [substantial] an amount of GeO<sub>2</sub>.

- 69. (Amended) The optical glass of claim 62 wherein said optical glass does not comprise [substantial] an amount of GeO<sub>2</sub>.
- 70. (Amended) The optical glass of claim [14] 11 wherein said optical glass exhibits a glass transition temperature equal to and/or less than 530°C and a yield point temperature equal to or less than 580°C.
- 71. (Amended) The optical glass of claim [15] 108 wherein said optical glass exhibits a glass transition temperature equal to and/or less than 530°C and a yield point temperature equal to or less than 580°C.
- 72. (Amended) The optical glass of claim [16] 109 wherein said optical glass exhibits a glass transition temperature equal to and/or less than 530°C and a yield point temperature equal to or less than 580°C.
- 74. (Amended) The optical glass of claim [14] 11 wherein said optical glass exhibits a refractive index in the range of from 1.7 to 2.0, an Abbé number in the range of from 20 to 32.

- 75. (Amended) The optical glass of claim [15] 108 wherein said optical glass exhibits a refractive index in the range of from 1.7 to 2.0, an Abbé number in the range of from 20 to 32.
- 76. (Amended) The optical glass of claim [16] 109 wherein said optical glass exhibits a refractive index in the range of from 1.7 to 2.0, an Abbé number in the range of from 20 to 32.
- 78. (Amended) The optical glass of claim [14] 11 wherein said optical glass exhibits a liquid phase temperature equal to or less than 970°C.
- 79. (Amended) The optical glass of claim [15] 108 wherein said optical glass exhibits a liquid phase temperature equal to or less than 970°C.
- 80. (Amended) The optical glass of claim [16] 109 wherein said optical glass exhibits a liquid phase temperature equal to or less than 970°C.
- 85. (Amended) An optical part being composed of the optical glass of claim [10] 12.

87. (Amended) An optical part being composed of the optical glass of claim [13] <u>17</u>. 88. (Amended) An optical part being composed of the optical glass of claim [14] <u>60</u>. 89. (Amended) An optical part being composed of the optical glass of claim [15] <u>108</u>. 90. (Amended) An optical part being composed of the optical glass of claim [16] <u>109</u>. 95. (Amended) A glass preform being composed of the optical glass of claim [10] <u>12</u>. 97. (Amended) A glass preform being composed of the optical glass of claim [13] <u>17</u>. 98. (Amended) A glass preform being composed of the optical glass of claim [14] <u>60</u>.

- 99. (Amended) A glass preform being composed of the optical glass of claim [15] 108.
- 100. (Amended) A glass preform being composed of the optical glass of claim [16] 109.
- 105. (Amended) The optical glass of claim [16] 108 wherein said optical glass comprises 0-11 percent of BaO.
- 106. (Amended) The optical glass of claim [16] 109 wherein said total quantity of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O is equal to or more than 29 percent.